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## SEMICONDUCTOR DEVICE

HITACHI CABLE LTD

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**Abstract:**

**PROBLEM TO BE SOLVED:** To make a package small in thickness in a CSP (Chip Scale Package) structure by which a lead frame of the same size is mounted on a semiconductor chip.

**SOLUTION:** A lead frame 4 to be adhered to a semiconductor chip 1 is almost the same in size as the chip 1. The surface 4e of an inner lead 4a of the lead frame 4 is coined to form a coined part 5 with reduced thickness. The lead frame 4 and the end surface 1c of the chip 1 are adhered to each other with a double-faced adhesive tape 3 interposed. The coined part 5 of the inner lead 4a is connected with a bonding pad 2 of the chip 1 through a bonding wire 9. The surface 1a of the chip 1 is packaged with a mold resin 8, thereby exposing only the surface 4c of an outer lead 4b on the packaged resin surface 8a.

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